

CLAIMS

1. An end piece for spraying a product, comprising a cylindroconical body (10) having an axial channel (12) whose first end (12A) is delimited by a transverse wall (18) exhibiting a spray orifice (20) and whose second end (12B) is capable of communicating with a reservoir, the end piece further comprising an axial core (24) disposed in the channel (12), whose first end (24A) is situated facing said transverse wall (18) and defines with the latter a spray chamber (21) and whose second end (24B) is situated in the vicinity of the second end (12B) of the channel, a communicating passage between said second end and the spray chamber being formed between the core (24) and the wall (13) of the channel (12),

characterised in that the core (24) exhibits means forming a fastening flange (26) having a fastening edge (28) which is directed towards the second end (24B) of the core (24) and which cooperates with the wall (13) of the channel (12) to retain the core in said channel.

2. An end piece according to claim 1, characterised in that the means forming the fastening flange take the form of at least one annular flange sector (26) delimited by a slot (27).

3. An end piece according to claim 1 or 2, characterised in that the channel has a fastening portion (12C), with which the means forming the flange (26) cooperate and over which the diametral dimensions of the channel (12) are less than the diametral dimensions of said means, and an insertion portion (12D), which extends between the fastening portion (12C) and the second end (12B) of the channel (12) and over which the diametral dimensions of the channel are at least substantially equal to those of the means forming the flange.

4. An end piece according to any one of claims 1 to 3, characterised in that the core (24) exhibits means (30) forming an axial bearing surface, which means cooperate with the wall (13) of the channel (12).

5. An end piece according to claim 4, characterised in that the core (24) exhibits at least one radially projecting cylinder sector (30) delimited by a slot (27).

6. An end piece according to claims 2 and 5, characterised in that the annular flange sector (26) is formed by a shoulder situated at the end of the cylinder sector (30) which is directed towards the second end (24B) of the core (24).

7. An end piece according to any one of claims 1 to 6, characterised in that the spray chamber (21) is formed by a cavity defined between the transverse wall (18) of the body (10) and the first end (24A) of the core (24) abutting against said wall, said cavity comprising at least one non-radial slot (21A) formed in the first end of the core (24) or the transverse wall (18).
8. An end piece according to any one of claims 1 to 7, characterised in that the core (24) exhibits, at its second end (24B), an end portion (24B) of reduced diameter around which an annular space is defined in the channel.
9. An end piece according to claim 8, characterised in that the end portion (24B) exhibits protruding axial fins (25).
10. An end piece according to any one of claims 1 to 9, characterised in that the core (24) is bevelled at its second end.
11. An end piece according to any one of claims 1 to 10, characterised in that the wall (13) of the channel (12) exhibits a shoulder (13A) in the vicinity of the second end (12B) of said channel and in that the core (24) extends, towards the second end of the channel, beyond said shoulder.
12. An assembly of an end piece according to any one of claims 1 to 11 and a tubular rod (22) providing connection to a reservoir, characterised in that the second end (12B) of the channel (12) is plugged together with the tubular rod (22) and the second end (24B) of the core (24) is engaged in said rod (22).
13. An assembly according to claim 12, characterised in that the second end (24B) of the core (24) is in axially bearing contact with the inner periphery of the rod (22) and in that at least one flow groove (23, 123) is formed between said second end and said inner periphery.
14. An assembly according to claim 13 having an end piece according to claim 9, characterised in that the fins (25) cooperate with the inner periphery of the rod (22) and the spaces (23) between said fins form flow grooves.
15. An assembly according to claim 13, characterised in that the flow groove is formed by at least one slot (123) in the inner periphery of the rod (122).